

FUND 402

SEWER CONSTRUCTION IMPROVEMENTS

Board of Supervisors' Adjustments

The following funding adjustments reflect all changes to the FY 2003 Advertised Budget Plan, as approved by the Board of Supervisors on April 29, 2002:

- ◆ The Board of Supervisors made no changes to the FY 2003 Advertised Budget Plan.

The following funding adjustments reflect all approved changes to the FY 2002 Revised Budget Plan from January 1, 2002 through April 22, 2002. Included are all adjustments made as part of the FY 2002 Third Quarter Review:

- ◆ An increase of \$7,983,000 includes \$1,500,000 to replace five pumping stations, \$3,000,000 for the installation of 10,900 linear feet of sewer line and the addition of two new pumping stations for the Leehigh Village Conservation Area to address septic system failure, and \$3,483,000 for the Cured in Place Piping (CIPP) contract to rehabilitate 27,000 linear feet of sewer lines per month for three County areas.
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County Executive Proposed FY 2003 Advertised Budget Plan

Purpose

Fund 402, Sewer Construction Improvements, provides for wastewater management construction projects and is funded by system revenues (e.g., Sewer Service Charges, Availability Fees, and Connection Fees) through a transfer of funds from Fund 400, Sewer Revenue. All projects in Fund 402 are supported by sewer system revenues and are included in the Summary of Capital Projects.

FY 2003 Initiatives

In FY 2003, an amount of \$45,712,000 is included in Fund 402, Sewer Construction Improvements. Funding for the following projects is provided through Fund 400, Sewer Revenue, including \$10,500,000 for the payment to the District of Columbia Water and Sewer Authority (DCWASA) for the County's share of the project costs associated with the upgrade of the DC Blue Plains Wastewater Treatment Plant; \$1,000,000 represents the County's share of nitrogen removal costs for the Arlington Treatment Plant Upgrade; \$2,800,000 is for Pump Station Renovations; \$23,568,000 is for Alexandria Sanitation Authority (ASA) Plant Improvements based on the County's share of construction costs to upgrade the ASA treatment plant; \$1,800,000 provides for the expansion and upgrade of the Rocky Run Pump Station; \$50,000 is for Integrated Sewer Metering to provide for the continuation of the agency's Sewer Meter Replacement Program; \$5,300,000 is for the Sewer Replacement and Transmission Program to provide for repair, replacement, and renovation of aging sewer lines; and \$694,000 is for the upgrade and replacement of the plant's SCADA network system to optimize wastewater processes and support the plant's ongoing expansion efforts.

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The agency will continue to hold a nitrification reserve in the amount of \$1,250,000 in Fund 400, Sewer Revenue, to provide funding for the County share of the design and construction expenses associated with the installation of a Biological Nutrient Removal (BNR) system at the Arlington Wastewater Treatment Plant. The retention of a nitrification reserve will provide the County with the ability to respond to State Water Control Board (SWCB) mandates for stricter phosphorus and nitrogen effluent permit standards.

Funding Adjustments

The following funding adjustments reflect all approved changes to the FY2002 Revised Budget Plan since passage of the FY 2002 Adopted Budget Plan. Included are all adjustments made as part of the FY 2001 Carryover Review and all other approved changes through December 31, 2001.

- ◆ As part of the *FY 2001 Carryover Review*, the Board of Supervisors approved an increase of \$51,344,092 for the carryover of unexpended project balances.

A Fund Statement, a Summary of Capital Projects and Project Detail Tables for each project funded in FY 2003 are provided on the following pages. The Summary of Capital Projects may include some projects without a Total Project Estimate amount. These projects are considered "continuing" projects or projects for which funding is necessary on an ongoing basis (e.g., a contingency or planning project). The Project Detail Tables include project location, description, source of funding, and completion schedules.

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FUND STATEMENT

Fund Type G40, Enterprise Funds

Fund 402, Sewer Construction Improvements

	FY 2001 Actual	FY 2002 Adopted Budget Plan	FY 2002 Revised Budget Plan	FY 2003 Advertised Budget Plan	FY 2003 Adopted Budget Plan
Beginning Balance	\$68,683,617	\$0	\$51,467,138	\$0	\$0
Revenue:					
Revenue from the Commonwealth ¹	\$95,217	\$0	\$0	\$0	\$0
Total Revenue	\$95,217	\$0	\$0	\$0	\$0
Transfer In:					
Sewer Revenue (400)	\$55,117,492	\$53,902,809	\$61,762,763	\$45,712,000	\$45,712,000
Total Transfer In	\$55,117,492	\$53,902,809	\$61,762,763	\$45,712,000	\$45,712,000
Total Available	\$123,896,326	\$53,902,809	\$113,229,901	\$45,712,000	\$45,712,000
Total Expenditures	\$72,429,188	\$53,902,809	\$113,229,901	\$45,712,000	\$45,712,000
Total Disbursements	\$72,429,188	\$53,902,809	\$113,229,901	\$45,712,000	\$45,712,000
Ending Balance	\$51,467,138	\$0	\$0	\$0	\$0

¹ In FY 2001, an amount of \$95,217 represents unanticipated revenues from the Virginia Department of Transportation for the reimbursement of sewer line expenses.

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FY 2003 Summary of Capital Projects

Fund: 402 Sewer Construction Improvements

Project #	Description	Total Project Estimate	FY 2001 Actual Expenditures	FY 2002 Revised Budget	FY 2003 Advertised Budget Plan	FY 2003 Adopted Budget Plan
G00901	DC Treatment Center - Blue Plains	\$61,891,342	\$3,372,841.74	\$6,910,566.84	\$10,500,000	\$10,500,000
G00903	Arlington Wastewater Treatment	11,457,392	764,742.00	1,033,102.00	1,000,000	1,000,000
I00351	Pump Station Renovations		628,753.03	8,151,361.94	2,800,000	2,800,000
I00355	Pump And Haul - Wylie/Gunston	2,900,000	322,748.98	286,006.83	0	0
I00904	ASA Wastewater Treatment Plant	178,466,723	55,994,258.33	30,514,577.88	23,568,000	23,568,000
I00905	Bell Haven Replacement	1,491,742	1,061,921.76	200,585.22	0	0
N00321	Lower Potomac Exp 54 MGD	105,269,000	2,810,840.84	21,798,777.52	0	0
T00124	Rocky Run Pump Station	4,335,926	225,676.35	2,187,203.78	1,800,000	1,800,000
X00445	Integrated Sewer Metering		39,840.88	157,065.32	50,000	50,000
X00823	Extension Projects FY1993	3,779,003	6,522.81	1,397,670.98	0	0
X00824	Extension Projects FY1994	1,258,000	13,724.16	243,765.33	0	0
X00825	Extension Projects FY1995	3,049,001	25,553.18	358,351.34	0	0
X00826	Extension Project FY1996	9,537,349	1,101,297.13	5,565,772.11	0	0
X00900	Replacement Transmission		0.00	759,576.00	0	0
X00905	Replacemt & Transmission		5,273,715.64	13,511,540.34	5,300,000	5,300,000
X00906	Sewer Line Enlargement		4,289.69	6,775,583.87	0	0
X00908	Sewer Line Replacement - 5 Inch		0.00	136,920.04	0	0
X00910	Replacement and Renewal		275,507.29	10,672,815.71	694,000	694,000
X00930	Sewer Relocation - VADOT		51,102.50	479,745.00	0	0
X00935	Rt. 50/66 Sewer Agreement Reserve	1,000,000	0.00	1,000,000.00	0	0
X00940	Developer Projects County Costs		14,267.50	148,689.09	0	0
X00942	Accotink PS Rehabilitation	2,838,883	441,584.43	301,965.69	0	0
X00998	Sewer Contingency Project		0.00	585,685.83	0	0
X00999	Sewer Revolving Fund		0.00	52,572.00	0	0
Total		\$387,274,361	\$72,429,188.24	\$113,229,900.66	\$45,712,000	\$45,712,000

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G00901	DC Treatment Blue Plains
Blue Plains Sewer Shed	Countywide
<p>This project is for the payment to the District of Columbia Water and Sewer Authority (DCWASA) for Fairfax County's share of the projected costs associated with the upgrade to the DC Blue Plains Wastewater Treatment Plant. The County pays for approximately 8.4 percent of the total costs for the design and construction of the upgrade for nitrification and sludge handling facilities. Fairfax County's estimated share of the project cost is \$61,891,342 over a six-year period. Funding of \$10,500,000 provides for the County's FY 2003 share based on DCWASA's projected expense summary and construction schedule.</p>	

	Total Project Estimate	Prior Expenditures	FY 2001 Expenditures	FY 2002 Revised Budget Plan	FY 2003 Advertised Budget Plan	FY 2003 Adopted Budget Plan	Future Years
Land Acquisition	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering	0	0	0	0	0	0	0
Construction	15,855,600	0	0	5,355,600	10,500,000	10,500,000	0
Interjurisdictional Payment	46,035,742	21,553,580	3,372,842	1,554,967	0	0	19,554,353
Total	\$61,891,342	\$21,553,580	\$3,372,842	\$6,910,567	\$10,500,000	\$10,500,000	\$19,554,353

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$10,500,000	\$10,500,000

Completion Schedule				
Land Acquisition Completion	Engineer/Architect Contract Award	Design Completion	Construction Contract Award	Construction Completion
First Quarter FY 2000	Fourth Quarter FY 2000	Fourth Quarter FY 2000	Various	Fourth Quarter FY 2009

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G00903	Arlington Wastewater Treatment
Arlington Sewer Shed	Countywide
<p>This project provides for the expansion and improvement of the Arlington County Wastewater Treatment Plant. The Fairfax County Board of Supervisors has approved a contract with Arlington County for the purchase of permanent sewage treatment capacity allocation of three million gallons per day in the expanded and improved Arlington Wastewater Treatment Plant. Fairfax County purchases this treatment capacity through contributions to the Arlington construction project. Funding in the amount of \$1,000,000 is required to meet the County's obligation in FY 2003.</p>	

	Total Project Estimate	Prior Expenditures	FY 2001 Expenditures	FY 2002 Revised Budget Plan	FY 2003 Advertised Budget Plan	FY 2003 Adopted Budget Plan	Future Years
Land Acquisition	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering	0	0	0	0	0	0	0
Construction	2,566,719	0	533,617	1,033,102	1,000,000	1,000,000	0
Interjurisdictional Payment	8,890,673	8,659,548	231,125	0	0	0	0
Total	\$11,457,392	\$8,659,548	\$764,742	\$1,033,102	\$1,000,000	\$1,000,000	\$0

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$1,000,000	\$1,000,000

Completion Schedule				
Land Acquisition Completion	Engineer/Architect Contract Award	Design Completion	Construction Contract Award	Construction Completion
NA	First Quarter FY 2000	First Quarter FY 2001	First Quarter FY 2001	Fourth Quarter FY 2005

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I00351	Pump Station Renovations
Countywide	Countywide
This project provides for the renovation of the existing pumping stations within the Wastewater Management Program. FY 2003 funding in the amount of \$2,800,000 includes \$1,300,000 for the continued rehabilitation of the Clifton Pump and Haul system and \$1,500,000 for the rehabilitation of five sewage pumping stations which require upgraded pumps, motors, and electrical systems due to the age, failure rate and increased maintenance costs.	

	Total Project Estimate	Prior Expenditures	FY 2001 Expenditures	FY 2002 Revised Budget Plan	FY 2003 Advertised Budget Plan	FY 2003 Adopted Budget Plan	Future Years
Land Acquisition		\$5,556	\$0	\$0	\$0	\$0	\$0
Design and Engineering		2,055,024	141,897	1,300,000	0	0	0
Construction		4,456,908	453,702	6,684,517	2,800,000	2,800,000	0
Other		148,785	33,155	166,845	0	0	0
Total	Continuing	\$6,666,273	\$628,753	\$8,151,362	\$2,800,000	\$2,800,000	\$0

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$2,800,000	\$2,800,000

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100904	ASA Wastewater Treatment Plant
ASA Sewer Shed	Various
<p>This project funds the payment to the Alexandria Sanitation Authority for Fairfax County's share of the construction costs associated with the improvements to the Alexandria Wastewater Treatment Plant. The County pays for approximately 60 percent of the total costs of the upgrade for ammonia removal. Funding of \$23,568,000 provides for the County's FY 2003 share based on the projected expense summary. The project has completed the design phase and construction is scheduled for completion in FY 2005. The agency submitted a second application to the Virginia Resource Authority (VRA) for an additional \$50 million in FY 2002. This funding was approved in the Fall of 2001 and loan proceeds are anticipated by Spring of 2002 to support the County's future payments.</p>	

	Total Project Estimate	Prior Expenditures	FY 2001 Expenditures	FY 2002 Revised Budget Plan	FY 2003 Advertised Budget Plan	FY 2003 Adopted Budget Plan	Future Years
Land Acquisition	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering	0	0	0	0	0	0	0
Construction	122,314,548	550,887	55,994,258	30,514,578	23,568,000	23,568,000	11,686,825
Other	56,152,175	56,152,175	0	0	0	0	0
Total	\$178,466,723	\$56,703,062	\$55,994,258	\$30,514,578	\$23,568,000	\$23,568,000	\$11,686,825

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$23,568,000	\$23,568,000

Completion Schedule				
Land Acquisition Completion	Engineer/Architect Contract Award	Design Completion	Construction Contract Award	Construction Completion
N/A	First Quarter FY 2000	First Quarter FY 2000	First Quarter FY 2001	Fourth Quarter FY 2005

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T00124	Rocky Run Pump Station
UOSA Sewer Shed	Sully
<p>This project provides for the expansion of the pumping station to accommodate the increase in wastewater flow into the Rocky Run watershed. This station has reached its full capacity. The project schedule will allow the agency to increase the size of the pumps from 150 horsepower (hp) to 280 hp and increase the infrastructure to support large pumps, a grinder system and a new electrical system. Based on the revised construction estimates from Upper Occoquan Sewage Authority (UOSA), funding of \$1,800,000 is required in FY 2003 to meet the County's obligations.</p>	

	Total Project Estimate	Prior Expenditures	FY 2001 Expenditures	FY 2002 Revised Budget Plan	FY 2003 Advertised Budget Plan	FY 2003 Adopted Budget Plan	Future Years
Land Acquisition	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering	123,046	123,046	0	0	0	0	0
Construction	4,212,880	0	225,676	2,187,204	1,800,000	1,800,000	0
Interjurisdictional Payment	0	0	0	0	0	0	0
Total	\$4,335,926	\$123,046	\$225,676	\$2,187,204	\$1,800,000	\$1,800,000	\$0

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$1,800,000	\$1,800,000

Completion Schedule				
Land Acquisition Completion	Engineer/Architect Contract Award	Design Completion	Construction Contract Award	Construction Completion
NA	NA	Second Quarter FY 2001	Fourth Quarter FY 2001	First Quarter FY 2004

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X00445	Integrated Sewer Metering
Countywide	Countywide
<p>This project funds the Wastewater Management's metering program. Flows must be monitored to: 1) determine when the lines are nearing maximum capacity, 2) detect groundwater inflow/infiltration, 3) allow proper billing under interjurisdictional agreements for sewage treatment, and 4) comply with the Virginia Water Control Board regulations requiring metering at all trunk sewer junctions. FY 2003 funding of \$50,000 will provide for the upgrade of existing meters based on the agency's metering replacement schedules.</p>	

	Total Project Estimate	Prior Expenditures	FY 2001 Expenditures	FY 2002 Revised Budget Plan	FY 2003 Advertised Budget Plan	FY 2003 Adopted Budget Plan	Future Years
Land Acquisition		\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering		36,830	4,369	0	0	0	0
Construction		63,464	0	92,537	0	0	0
Other		1,517,249	35,471	64,529	50,000	50,000	0
Total	Continuing	\$1,617,543	\$39,841	\$157,065	\$50,000	\$50,000	\$0

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$50,000	\$50,000

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X00905	Replacement and Transmission
Countywide	Countywide
<p>This is a continuing project established to implement systematic rehabilitation of the County's more than 3,000 miles of sanitary sewer lines. Rehabilitation options include techniques/products such as slip-lining, instituform, and fold and form. This work is performed by outside contractors. This project completed 20 miles of sewer lines in FY 2000, 20.5 miles of sewer lines in FY 2001, and anticipates 20 miles in FY 2002. Funding of \$5,300,000 is included for the recurring repair, replacement and renovation of approximately 20 miles of sewer lines using predominantly "no dig" technologies in FY 2003.</p>	

	Total Project Estimate	Prior Expenditures	FY 2001 Expenditures	FY 2002 Revised Budget Plan	FY 2003 Advertised Budget Plan	FY 2003 Adopted Budget Plan	Future Years
Land Acquisition		\$122,243	\$545	\$10,000	\$0	\$0	\$0
Design and Engineering		1,473,593	107,580	563,527	0	0	0
Construction		44,367,102	5,165,591	12,933,014	5,300,000	5,300,000	0
Other		183,880	0	5,000	0	0	0
Total	Continuing	\$46,146,817	\$5,273,716	\$13,511,540	\$5,300,000	\$5,300,000	\$0

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$5,300,000	\$5,300,000

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X00910	Replacement & Renewal
Countywide	Countywide
<p>This project funds the administration, design and construction of the replacement of undersized sewer lines or lines that have reached capacity. Due to its long-term nature, this project is ongoing and funded as inadequate sewer lines are identified. FY 2003 funding of \$694,000 provides for the replacement of the plant's Supervisory Control and Data Acquisition network system in order to optimize wastewater processes and support the ongoing plant expansion efforts.</p>	

	Total Project Estimate	Prior Expenditures	FY 2001 Expenditures	FY 2002 Revised Budget Plan	FY 2003 Advertised Budget Plan	FY 2003 Adopted Budget Plan	Future Years
Land Acquisition		\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering		335,241	0	0	0	0	0
Construction		3,753,445	213,750	10,632,573	0	0	0
Other		168,645	61,757	40,243	694,000	694,000	0
Total	Continuing	\$4,257,331	\$275,507	\$10,672,816	\$694,000	\$694,000	\$0

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Sewer Revenue	Total Funding
\$0	\$0	\$0	\$694,000	\$694,000